

What is claimed is:

1        1. An information processing device configured with at  
2        least one interface section enabling a wake-up instruction  
3        for starting up operationally stopped functional units in a  
4        power-off state or a suspend state, a man-machine interface,  
5        a memory, and a processor, connected by a chipset having a  
6        bus control function, the information-processing device  
7        characterized in that:

8              operational mode for the functional units when started  
9        up from either said power-off state or said suspend state  
10       being a normal operational mode use-enabling the functional  
11       units in their entirety including the man-machine interface,  
12       and an exclusive operational mode use-enabling some of the  
13       functional units on starting up from either said power-off  
14       state or said suspend state, including said interface  
15       section having executed a wake-up instruction, said memory,  
16       said processor and said chipset; wherein

17              said normal operation mode and said exclusive  
18       operational mode are selected between by said interface  
19       section having executed a wake-up instruction; and  
20              when said exclusive operational mode is  
21       terminated, the information-processing device goes to  
22       its pre-start-up state, either said power-off state or  
23       said suspend state.

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1       2. An information-processing device as set forth in  
2       claim 1, characterized in that data changed in the exclusive  
3       operational mode and data change recognition flags  
4       indicating data has been changed are stored in a  
5       predetermined memory area different from a memory area for  
6       storing data used in the normal operation mode.

1       3. An information-processing device as set forth in  
2       claim 1, characterized in that:

3       start-up time is shorter and power consumption is lower  
4       for said exclusive operational mode than for said normal  
5       operational mode; and further

6       said normal operation mode and said exclusive  
7       operational mode are started up selectively or exclusively.

1       4. An information-processing device as set forth in  
2       claim 1, characterized in being configured to select the  
3       exclusive operational mode, and to supply operational power  
4       to and perform information processing on only resources used  
5       in the exclusive operational mode, when the information-  
6       processing device is started up from a designated said  
7       interface unit or said input/output device.

1       5. An information-processing device according to claim  
2       1, characterized in having:

3       an operation system for said normal operation mode, and  
4       an operation system for said exclusive operational  
5       mode;

6           the information-processing device therein being  
7   configured to switch between said operation system for the  
8   normal operation mode and said operation system for the  
9   exclusive operational mode according to conditions for  
10   starting-up from said power-off state and said suspend  
11   state.

1           6. An information-processing device as set forth in  
2   claim 5, characterized in that the designated said interface  
3   unit is provided with a radio transmission-reception  
4   function;

5           the information-processing device therein being  
6   configured to set an exclusive operational mode flag when  
7   the designated said interface unit via the radio  
8   transmission-reception function receives a wake-up signal in  
9   the suspend state, for causing a start-up process for said  
10   operation system for said exclusive operational mode to be  
11   carried out.

1           7. An information-processing device configured for  
2   selectively use-enabling functional units thereof from  
3   operationally stopped power-off or suspended states, the  
4   information processing device comprising:

5           at least one interface section enabling a wake-up  
6   instruction for starting-up the functional units of the  
7   information-processing device from the power-off or  
8   suspended states;

9           a man-machine interface;

10          a memory;

11          a processor; and

12          a chipset connecting the interface section, the man-

13        machine interface, the memory and the processor, said

14        chipset in cooperation with said memory and said processor

15        having a bus control function for bringing operational mode

16        of the information-processing device functional units when

17        started up from either said power-off state or said suspend

18        state into one of

19                a normal operational mode use-enabling the

20        functional units in their entirety including the man-

21        machine interface, and

22                an exclusive operational mode use-enabling some of

23        the functional units on starting up from either said

24        power-off state or said suspend state, including said

25        interface section having executed a wake-up

26        instruction, said memory, said processor and said

27        chipset; wherein

28                said interface section executing a wake-up

29        instruction selects between said normal operation mode

30        and said exclusive operational mode; and

31                when said exclusive operational mode is

32        terminated, the information-processing device goes to

33       one of said power-off state and said suspend state as  
34       its pre-start-up state.

1           8. An information-processing device configured with  
2       interface units, input/output devices, memory, a display  
3       unit and a central processing unit, connected by a chipset  
4       having a bus control function, wherein

5           operational mode when the information-processing device  
6       is started up from either said power-off state or said  
7       suspend state being a normal operation mode use-enabling  
8       functions of the information-processing device in their  
9       entirety as information processing functions, or an  
10      exclusive operational mode use-enabling some functions of  
11      the information-processing device as information processing  
12      functions; the information-processing device therein  
13      characterized in that:

14           said normal operation mode and said exclusive  
15      operational mode are selected between according to start-up  
16      conditions.

1           9. An information-processing device as set forth in  
2       claim 8, characterized in that data changed in the exclusive  
3       operational mode and data change recognition flags  
4       indicating data has been changed are stored in a  
5       predetermined memory area different from a memory area for  
6       storing data used in the normal operation mode.

1       10. An information-processing device as set forth in  
2       claim 8, characterized in that:

3               start-up time is shorter and power consumption is lower  
4       for said exclusive operational mode than for said normal  
5       operational mode; and further

6               said normal operation mode and said exclusive  
7       operational mode are started up selectively or exclusively.

1       11. An information-processing device as set forth in  
2       claim 8, characterized in being configured to select the  
3       exclusive operational mode, and to supply operational power  
4       to and perform information processing on only resources used  
5       in the exclusive operational mode, when the information-  
6       processing device is started up from a designated said  
7       interface unit or said input/output device.

1       12. An information-processing device according to claim  
2       8, characterized in having:

3               an operation system for said normal operation mode, and  
4               an operation system for said exclusive operational  
5       mode;

6               the information-processing device therein being  
7       configured to switch between said operation system for the  
8       normal operation mode and said operation system for the  
9       exclusive operational mode according to conditions for  
10      starting-up from said power-off state and said suspend  
11      state.

1       13. An information-processing device as set forth in  
2       claim 12, characterized in that the designated said  
3       interface unit is provided with a radio transmission-  
4       reception function;

5               the information-processing device therein being  
6       configured to set an exclusive operational mode flag when  
7       the designated said interface unit via the radio  
8       transmission-reception function receives a wake-up signal in  
9       the suspend state, for causing a start-up process for said  
10      operation system for said exclusive operational mode to be  
11      carried out.

1       14. A control method for an information-processing  
2       device configured with interface units, an input/output  
3       devices, a memory, a display unit and a central processing  
4       unit, connected by a chipset having a bus control function,  
5       characterized in that

6               operational mode when the information-processing device  
7       is started up from either said power-off state or said  
8       suspend state goes into a normal operation mode use-enabling  
9       functions in their entirety as information processing  
10      functions, or into an exclusive operational mode use-  
11      enabling some functions as information processing functions;  
12      the control method therein including the step of:  
13               selecting between said normal operation mode and said  
14      exclusive operational mode according to start-up conditions.

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1       15. An information-processing device control method as  
2       set forth in claim 14, wherein:

3            said exclusive operational mode is selected according  
4       to start-up conditions from a designated said interface unit  
5       or said input/output device;

6            the control method therein further characterized in  
7       including the step of executing information processing in  
8       accordance with said start-up conditions.

1       16. An information-processing device control method as  
2       set forth in claim 14, wherein:

3            the information-processing device has an operation  
4       system for said normal operation mode, and an operation  
5       system for said exclusive operational mode;

6            the control method therein further characterized in  
7       including the step of control-switching between said  
8       operation system for the normal operation mode and said  
9       operation system for the exclusive operational mode  
10      according to conditions for starting-up from said power-off  
11      state and said suspend state.

1       17. A recording medium storing a control program for an  
2       information-processing device configured with interface  
3       units, input/output devices, memory, a display unit and a  
4       central processing unit, connected by a chipset having a bus  
5       control function, the control-program storing recording

6 medium characterized in that thereon is stored a control  
7 program including:  
8       a process for executing a normal operation mode use-  
9       enabling functions of the information-processing device in  
10      their entirety as information processing functions;  
11       a process for executing an exclusive operational mode  
12      use-enabling some functions of the information-processing  
13      device as information processing functions; and  
14       a process for selecting said normal operation mode  
15      according to normal start-up conditions when the  
16      information-processing device is started up from either a  
17      power-off state or a suspend state, and for selecting said  
18      exclusive operational mode according to start-up conditions  
19      from a designated said interface unit or said input/output  
20      device.

1       18. An information-processing device configured with  
2      interface units, input/output devices, memory, a display  
3      unit and a central processing unit, connected by a chipset  
4      having a bus control function, characterized by:  
5       means for executing a normal operation mode use-  
6       enabling functions of the information-processing device in  
7       their entirety as information processing functions;  
8       means for executing an exclusive operational mode use-  
9       enabling some functions of the information-processing device  
10      as information processing functions; and

11       means for selecting said normal operation mode  
12      according to normal start-up conditions when the  
13      information-processing device is started up from either a  
14      power-off state or a suspend state, and for selecting said  
15      exclusive operational mode according to start-up conditions  
16      from a designated said interface unit or said input/output  
17      device.

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